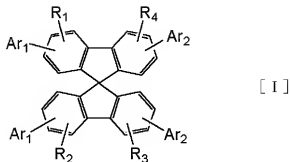


(b) Amendments to the Claims

Kindly cancel claims 1, 3 and 5-12 without prejudice or disclaimer. Please add new claims 13-18 as follows. A detailed listing of the claims is provided which replaces all earlier listings.

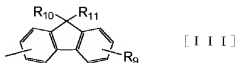
1.-12. (Cancelled).

13. (New) An organic luminescence device comprising at least a pair of electrodes including an anode and a cathode and one or a plurality of layers containing an organic compound sandwiched between the pair of electrodes, wherein at least one of the layers containing the organic compound contains at least one spiro compound represented by the following general formula [I]:

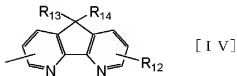


wherein  $R_1$ ,  $R_2$ ,  $R_3$ , and  $R_4$  represent a hydrogen atom, a substituted or unsubstituted alkyl group, a substituted or unsubstituted aralkyl group, a substituted or unsubstituted aryl group, a substituted or unsubstituted heterocyclic group, a substituted amino group, a cyano group, or a halogen atom, and  $R_1$ ,  $R_2$ ,  $R_3$ , and  $R_4$  may be identical or different from each other; and  $Ar_1$  and  $Ar_2$  represent a substituted or unsubstituted condensed polycyclic aromatic group or a substituted or unsubstituted condensed polycyclic heterocyclic group, which may be identical or different from each other and

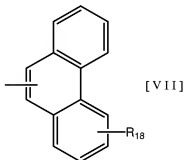
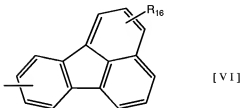
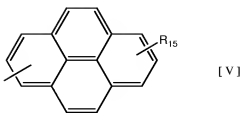
wherein at least one of Ar<sub>1</sub> and Ar<sub>2</sub> is a condensed polycyclic aromatic group represented by one of the following general formula [III] to [VII]:



wherein R<sub>9</sub> represents a hydrogen atom, a substituted or unsubstituted alkyl group, a substituted or unsubstituted aralkyl group, a substituted or unsubstituted aryl group, a substituted or unsubstituted heterocyclic group, a substituted amino group, a cyano group, or a halogen atom; and R<sub>10</sub> and R<sub>11</sub> represent a hydrogen atom, a substituted or unsubstituted alkyl group, a substituted or unsubstituted aralkyl group, a substituted or unsubstituted aryl group, or a substituted or unsubstituted heterocyclic group, which may be identical or different from each other;



wherein R<sub>12</sub> represents a hydrogen atom, a substituted or unsubstituted alkyl group, a substituted or unsubstituted aralkyl group, a substituted or unsubstituted aryl group, a substituted or unsubstituted heterocyclic group, a substituted amino group, a cyano group, or a halogen atom; and R<sub>13</sub> and R<sub>14</sub> represent a hydrogen atom, a substituted or unsubstituted alkyl group, a substituted or unsubstituted aralkyl group, a substituted or unsubstituted aryl group, or a substituted or unsubstituted heterocyclic group, which may be identical or different from each other; and

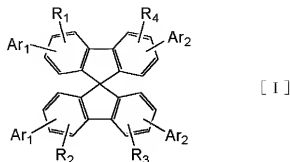


wherein  $R_{15}$  to  $R_{18}$  represent a hydrogen atom, a substituted or unsubstituted alkyl group, a substituted or unsubstituted aralkyl group, a substituted or unsubstituted aryl group, a substituted or unsubstituted heterocyclic group, a substituted amino group, a cyano group, or a halogen atom; and

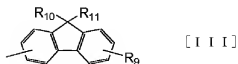
wherein at least an electron-transporting layer or a luminescent layer among the layers containing the organic compound contains at least one of the spiro compounds.

14. (New) An organic luminescence device comprising at least a pair of electrodes including an anode and a cathode and one or a plurality of layers containing an organic compound sandwiched between the pair of electrodes, wherein at least one of the

layers containing the organic compound contains at least one spiro compound represented by the following general formula [I]:

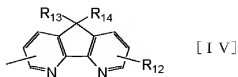


wherein  $R_1$ ,  $R_2$ ,  $R_3$ , and  $R_4$  represent a hydrogen atom, a substituted or unsubstituted alkyl group, a substituted or unsubstituted aralkyl group, a substituted or unsubstituted aryl group, a substituted or unsubstituted heterocyclic group, a substituted amino group, a cyano group, or a halogen atom, and  $R_1$ ,  $R_2$ ,  $R_3$ , and  $R_4$  may be identical or different from each other; and  $Ar_1$  and  $Ar_2$  represent a substituted or unsubstituted condensed polycyclic aromatic group or a substituted or unsubstituted condensed polycyclic heterocyclic group, which may be identical or different from each other and wherein at least one of  $Ar_1$  and  $Ar_2$  is a condensed polycyclic aromatic group represented by one of the following general formula [III] to [VII]:

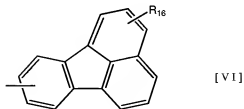
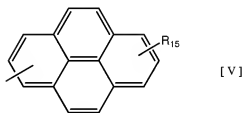


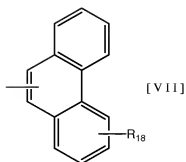
wherein  $R_9$  represents a hydrogen atom, a substituted or unsubstituted alkyl group, a substituted or unsubstituted aralkyl group, a substituted or unsubstituted aryl group, a substituted or unsubstituted heterocyclic group, a substituted amino group, a cyano group, or a halogen atom; and  $R_{10}$  and  $R_{11}$  represent a hydrogen

atom, a substituted or unsubstituted alkyl group, a substituted or unsubstituted aralkyl group, a substituted or unsubstituted aryl group, or a substituted or unsubstituted heterocyclic group, which may be identical or different from each other;



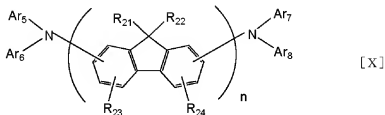
wherein  $R_{12}$  represents a hydrogen atom, a substituted or unsubstituted alkyl group, a substituted or unsubstituted aralkyl group, a substituted or unsubstituted aryl group, a substituted or unsubstituted heterocyclic group, a substituted amino group, a cyano group, or a halogen atom; and  $R_{13}$  and  $R_{14}$  represent a hydrogen atom, a substituted or unsubstituted alkyl group, a substituted or unsubstituted aralkyl group, a substituted or unsubstituted aryl group, or a substituted or unsubstituted heterocyclic group, which may be identical or different from each other; and





wherein  $R_{15}$  to  $R_{18}$  represent a hydrogen atom, a substituted or unsubstituted alkyl group, a substituted or unsubstituted aralkyl group, a substituted or unsubstituted aryl group, a substituted or unsubstituted heterocyclic group, a substituted amino group, a cyano group, or a halogen atom; and

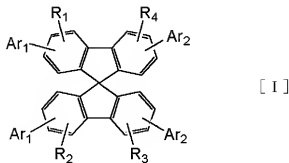
wherein at least a luminescent layer among the layers containing the organic compound contains at least one of the spiro compounds and a fluorene compound represented by the following general formula [X]:



wherein  $R_{21}$  and  $R_{22}$  represent a hydrogen atom, a substituted or unsubstituted alkyl group, a substituted or unsubstituted aralkyl group, a substituted or unsubstituted aryl group, or a substituted or unsubstituted heterocyclic group,  $R_{21}$  themselves or  $R_{22}$  themselves, which are bonded to different fluorene groups, may be identical or different from each other, and  $R_{21}$  and  $R_{22}$  that are bonded to the same fluorene group may be identical or different from each other;  $R_{23}$  and  $R_{24}$  represent a hydrogen atom, a substituted or unsubstituted alkyl group, a substituted or unsubstituted aralkyl group, a substituted or unsubstituted aryl group, a substituted or unsubstituted heterocyclic group, a cyano group, or a halogen atom, and  $R_{23}$  themselves or  $R_{24}$  themselves, which are bonded

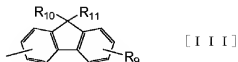
to different fluorene groups, may be identical or different from each other, and  $R_{23}$  and  $R_{24}$  that are bonded to the same fluorene group may be identical or different from each other;  $Ar_3$ ,  $Ar_6$ ,  $Ar_7$ , and  $Ar_8$  represent a substituted or unsubstituted aromatic group, a substituted or unsubstituted heterocyclic group, a substituted or unsubstituted condensed polycyclic aromatic group, or a substituted or unsubstituted condensed polycyclic heterocyclic group, which may be identical or different from each other, and  $Ar_3$  and  $Ar_6$  as well as  $Ar_7$  and  $Ar_8$  may be bonded with each other to form rings, respectively; and  $n$  represents an integral number of 1 to 10.

15. (New) An organic luminescence device comprising at least a pair of electrodes including an anode and a cathode and one or a plurality of layers containing an organic compound sandwiched between the pair of electrodes, wherein at least one of the layers containing the organic compound contains at least one spiro compound represented by the following general formula [I]:

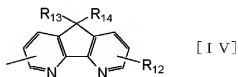


wherein  $R_1$ ,  $R_2$ ,  $R_3$ , and  $R_4$  represent a hydrogen atom, a substituted or unsubstituted alkyl group, a substituted or unsubstituted aralkyl group, a substituted or unsubstituted aryl group, a substituted or unsubstituted heterocyclic group, a substituted amino group, a cyano group, or a halogen atom, and  $R_1$ ,  $R_2$ ,  $R_3$ , and  $R_4$  may be identical or different from each other; and  $Ar_1$  and  $Ar_2$  represent a substituted or unsubstituted

condensed polycyclic aromatic group or a substituted or unsubstituted condensed polycyclic heterocyclic group, which may be identical or different from each other and wherein at least one of Ar<sub>1</sub> and Ar<sub>2</sub> is a condensed polycyclic aromatic group represented by one of the following general formula [III] to [VII]:

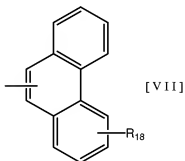
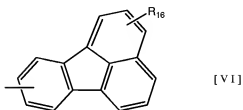
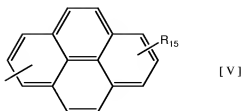


wherein R<sub>9</sub> represents a hydrogen atom, a substituted or unsubstituted alkyl group, a substituted or unsubstituted aralkyl group, a substituted or unsubstituted aryl group, a substituted or unsubstituted heterocyclic group, a substituted amino group, a cyano group, or a halogen atom; and R<sub>10</sub> and R<sub>11</sub> represent a hydrogen atom, a substituted or unsubstituted alkyl group, a substituted or unsubstituted aralkyl group, a substituted or unsubstituted aryl group, or a substituted or unsubstituted heterocyclic group, which may be identical or different from each other;



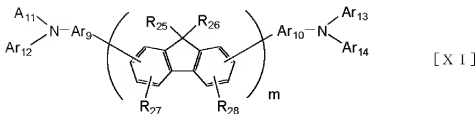
wherein R<sub>12</sub> represents a hydrogen atom, a substituted or unsubstituted alkyl group, a substituted or unsubstituted aralkyl group, a substituted or unsubstituted aryl group, a substituted or unsubstituted heterocyclic group, a substituted amino group, a cyano group, or a halogen atom; and R<sub>13</sub> and R<sub>14</sub> represent a hydrogen atom, a substituted or unsubstituted alkyl group, a substituted or unsubstituted aralkyl group, a substituted or unsubstituted aryl group, or a substituted or unsubstituted heterocyclic group, which may be identical or different from each other; and





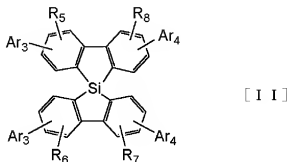
wherein  $R_{15}$  to  $R_{18}$  represent a hydrogen atom, a substituted or unsubstituted alkyl group, a substituted or unsubstituted aralkyl group, a substituted or unsubstituted aryl group, a substituted or unsubstituted heterocyclic group, a substituted amino group, a cyano group, or a halogen atom; and

wherein at least a luminescent layer among the layers containing the organic compound contains at least one of the spiro compounds and a fluorene compound represented by the following general formula [XI]:

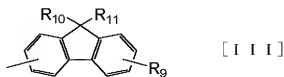


(wherein  $R_{25}$  and  $R_{26}$  represent a hydrogen atom, a substituted or unsubstituted alkyl group, a substituted or unsubstituted aralkyl group, a substituted or unsubstituted aryl group, or a substituted or unsubstituted heterocyclic group,  $R_{25}$  themselves or  $R_{26}$  themselves, which are bonded to different fluorene groups, may be identical or different from each other, and  $R_{25}$  and  $R_{26}$  that are bonded to the same fluorene group may be identical or different from each other;  $R_{27}$  and  $R_{28}$  represent a hydrogen atom, a substituted or unsubstituted alkyl group, a substituted or unsubstituted aralkyl group, a substituted or unsubstituted aryl group, a substituted or unsubstituted heterocyclic group, a cyano group, or a halogen atom, and  $R_{27}$  themselves or  $R_{28}$  themselves, which are bonded to different fluorene groups, may be identical or different from each other, and  $R_{27}$  and  $R_{28}$  that are bonded to the same fluorene group may be identical or different from each other;  $Ar_9$  and  $Ar_{10}$  represent a substituted or unsubstituted divalent aromatic group or a substituted or unsubstituted divalent heterocyclic group, which may be identical or different from each other;  $Ar_{11}$ ,  $Ar_{12}$ ,  $Ar_{13}$ , and  $Ar_{14}$  represent a substituted or unsubstituted aromatic group, a substituted or unsubstituted heterocyclic group, a substituted or unsubstituted condensed polycyclic aromatic group, or a substituted or unsubstituted condensed polycyclic heterocyclic group, which may be identical or different from each other, and  $Ar_{11}$  and  $Ar_{12}$  as well as  $Ar_{13}$  and  $Ar_{14}$  may be bonded with each other to form rings, respectively; and  $m$  represents an integral number of 1 to 10.)

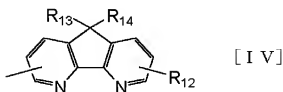
16. (New) An organic luminescence device comprising at least a pair of electrodes including an anode and a cathode and one or a plurality of layers containing an organic compound sandwiched between the pair of electrodes, wherein at least one of the layers containing the organic compound contains at least one spiro compound represented by the following general formula [II]:



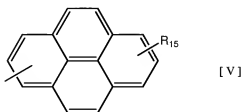
wherein  $R_5$ ,  $R_6$ ,  $R_7$ , and  $R_8$  represent a hydrogen atom, a substituted or unsubstituted alkyl group, a substituted or unsubstituted aralkyl group, a substituted or unsubstituted aryl group, a substituted or unsubstituted heterocyclic group, a substituted amino group, a cyano group, or a halogen atom, and  $R_5$ ,  $R_6$ ,  $R_7$ , and  $R_8$  may be identical or different from each other; and  $Ar_3$  and  $Ar_4$  represent a substituted or unsubstituted condensed polycyclic aromatic group or a substituted or unsubstituted condensed polycyclic heterocyclic group, which may be identical or different from each other and wherein at least one of  $Ar_3$  and  $Ar_4$  is a condensed polycyclic aromatic group represented by one of the following general formula [III] to [VIII]:

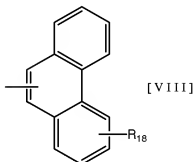
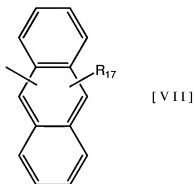
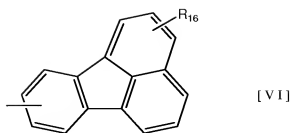


wherein  $R_9$  represents a hydrogen atom, a substituted or unsubstituted alkyl group, a substituted or unsubstituted aralkyl group, a substituted or unsubstituted aryl group, a substituted or unsubstituted heterocyclic group, a substituted amino group, a cyano group, or a halogen atom; and  $R_{10}$  and  $R_{11}$  represent a hydrogen atom, a substituted or unsubstituted alkyl group, a substituted or unsubstituted aralkyl group, a substituted or unsubstituted aryl group, or a substituted or unsubstituted heterocyclic group, which may be identical or different from each other;



wherein  $R_{12}$  represents a hydrogen atom, a substituted or unsubstituted alkyl group, a substituted or unsubstituted aralkyl group, a substituted or unsubstituted aryl group, a substituted or unsubstituted heterocyclic group, a substituted amino group, a cyano group, or a halogen atom; and  $R_{13}$  and  $R_{14}$  represent a hydrogen atom, a substituted or unsubstituted alkyl group, a substituted or unsubstituted aralkyl group, a substituted or unsubstituted aryl group, or a substituted or unsubstituted heterocyclic group, which may be identical or different from each other; and





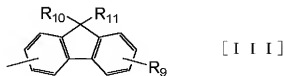
wherein  $R_{15}$  to  $R_{18}$  represent a hydrogen atom, a substituted or unsubstituted alkyl group, a substituted or unsubstituted aralkyl group, a substituted or unsubstituted aryl group, a substituted or unsubstituted heterocyclic group, a substituted amino group, a cyano group, or a halogen atom.

17. (New) An organic luminescence device comprising at least a pair of electrodes including an anode and a cathode and one or a plurality of layers containing an organic compound sandwiched between the pair of electrodes, wherein at least one of the

layers containing the organic compound contains at least one spiro compound represented by the following general formula [III]:

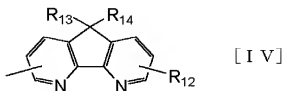


wherein R<sub>5</sub>, R<sub>6</sub>, R<sub>7</sub>, and R<sub>8</sub> represent a hydrogen atom, a substituted or unsubstituted alkyl group, a substituted or unsubstituted aralkyl group, a substituted or unsubstituted aryl group, a substituted or unsubstituted heterocyclic group, a substituted amino group, a cyano group, or a halogen atom, and R<sub>5</sub>, R<sub>6</sub>, R<sub>7</sub>, and R<sub>8</sub> may be identical or different from each other; and Ar<sub>3</sub> and Ar<sub>4</sub> represent a substituted or unsubstituted condensed polycyclic aromatic group or a substituted or unsubstituted condensed polycyclic heterocyclic group, which may be identical or different from each other and wherein at least one of Ar<sub>3</sub> and Ar<sub>4</sub> is a condensed polycyclic aromatic group represented by one of the following general formula [III] to [VIII]:

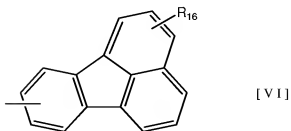
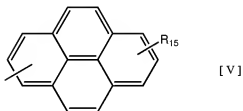


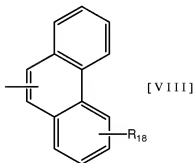
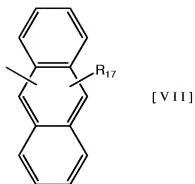
wherein R<sub>9</sub> represents a hydrogen atom, a substituted or unsubstituted alkyl group, a substituted or unsubstituted aralkyl group, a substituted or unsubstituted aryl group, a substituted or unsubstituted heterocyclic group, a substituted amino group, a cyano group, or a halogen atom; and R<sub>10</sub> and R<sub>11</sub> represent a hydrogen atom, a substituted or

unsubstituted alkyl group, a substituted or unsubstituted aralkyl group, a substituted or unsubstituted aryl group, or a substituted or unsubstituted heterocyclic group, which may be identical or different from each other;



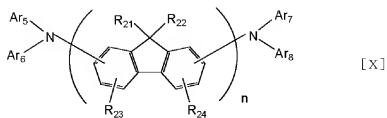
wherein  $R_{12}$  represents a hydrogen atom, a substituted or unsubstituted alkyl group, a substituted or unsubstituted aralkyl group, a substituted or unsubstituted aryl group, a substituted or unsubstituted heterocyclic group, a substituted amino group, a cyano group, or a halogen atom; and  $R_{13}$  and  $R_{14}$  represent a hydrogen atom, a substituted or unsubstituted alkyl group, a substituted or unsubstituted aralkyl group, a substituted or unsubstituted aryl group, or a substituted or unsubstituted heterocyclic group, which may be identical or different from each other; and





wherein  $R_{15}$  to  $R_{18}$  represent a hydrogen atom, a substituted or unsubstituted alkyl group, a substituted or unsubstituted aralkyl group, a substituted or unsubstituted aryl group, a substituted or unsubstituted heterocyclic group, a substituted amino group, a cyano group, or a halogen atom; and

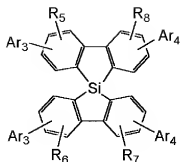
wherein at least a luminescent layer among the layers containing the organic compound contains at least one of the spiro compounds and a fluorene compound represented by the following general formula [X]:





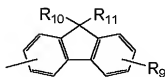
wherein  $R_{21}$  and  $R_{22}$  represent a hydrogen atom, a substituted or unsubstituted alkyl group, a substituted or unsubstituted aralkyl group, a substituted or unsubstituted aryl group, or a substituted or unsubstituted heterocyclic group,  $R_{21}$  themselves or  $R_{22}$  themselves, which are bonded to different fluorene groups, may be identical or different from each other, and  $R_{21}$  and  $R_{22}$  that are bonded to the same fluorene group may be identical or different from each other;  $R_{23}$  and  $R_{24}$  represent a hydrogen atom, a substituted or unsubstituted alkyl group, a substituted or unsubstituted aralkyl group, a substituted or unsubstituted aryl group, a substituted or unsubstituted heterocyclic group, a cyano group, or a halogen atom, and  $R_{23}$  themselves or  $R_{24}$  themselves, which are bonded to different fluorene groups, may be identical or different from each other, and  $R_{23}$  and  $R_{24}$  that are bonded to the same fluorene group may be identical or different from each other;  $Ar_5$ ,  $Ar_6$ ,  $Ar_7$ , and  $Ar_8$  represent a substituted or unsubstituted aromatic group, a substituted or unsubstituted heterocyclic group, a substituted or unsubstituted condensed polycyclic aromatic group, or a substituted or unsubstituted condensed polycyclic heterocyclic group, which may be identical or different from each other, and  $Ar_5$  and  $Ar_6$  as well as  $Ar_7$  and  $Ar_8$  may be bonded with each other to form rings, respectively; and  $n$  represents an integral number of 1 to 10.

18. (New) An organic luminescence device comprising at least a pair of electrodes including an anode and a cathode and one or a plurality of layers containing an organic compound sandwiched between the pair of electrodes, wherein at least one of the layers containing the organic compound contains at least one spiro compound represented by the following general formula [III]:



[ I I ]

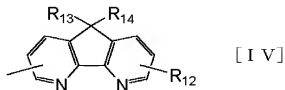
wherein  $R_5$ ,  $R_6$ ,  $R_7$ , and  $R_8$  represent a hydrogen atom, a substituted or unsubstituted alkyl group, a substituted or unsubstituted aralkyl group, a substituted or unsubstituted aryl group, a substituted or unsubstituted heterocyclic group, a substituted amino group, a cyano group, or a halogen atom, and  $R_5$ ,  $R_6$ ,  $R_7$ , and  $R_8$  may be identical or different from each other; and  $Ar_3$  and  $Ar_4$  represent a substituted or unsubstituted condensed polycyclic aromatic group or a substituted or unsubstituted condensed polycyclic heterocyclic group, which may be identical or different from each other and wherein at least one of  $Ar_3$  and  $Ar_4$  is a condensed polycyclic aromatic group represented by one of the following general formula [III] to [VIII]:



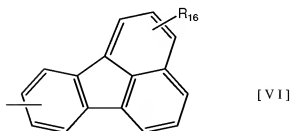
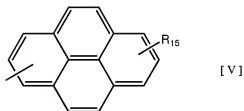
[ I I I ]

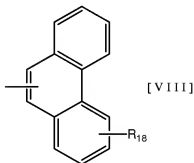
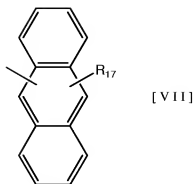
wherein  $R_9$  represents a hydrogen atom, a substituted or unsubstituted alkyl group, a substituted or unsubstituted aralkyl group, a substituted or unsubstituted aryl group, a substituted or unsubstituted heterocyclic group, a substituted amino group, a cyano group, or a halogen atom; and  $R_{10}$  and  $R_{11}$  represent a hydrogen atom, a substituted or unsubstituted alkyl group, a substituted or unsubstituted aralkyl group, a substituted or

unsubstituted aryl group, or a substituted or unsubstituted heterocyclic group, which may be identical or different from each other;



wherein  $R_{12}$  represents a hydrogen atom, a substituted or unsubstituted alkyl group, a substituted or unsubstituted aralkyl group, a substituted or unsubstituted aryl group, a substituted or unsubstituted heterocyclic group, a substituted amino group, a cyano group, or a halogen atom; and  $R_{13}$  and  $R_{14}$  represent a hydrogen atom, a substituted or unsubstituted alkyl group, a substituted or unsubstituted aralkyl group, a substituted or unsubstituted aryl group, or a substituted or unsubstituted heterocyclic group, which may be identical or different from each other; and





wherein  $R_{15}$  to  $R_{18}$  represent a hydrogen atom, a substituted or unsubstituted alkyl group, a substituted or unsubstituted aralkyl group, a substituted or unsubstituted aryl group, a substituted or unsubstituted heterocyclic group, a substituted amino group, a cyano group, or a halogen atom; and

wherein at least a luminescent layer among the layers containing the organic compound contains at least one of the spiro compounds and a fluorene compound represented by the following general formula [XI]:



(wherein  $R_{25}$  and  $R_{26}$  represent a hydrogen atom, a substituted or unsubstituted alkyl group, a substituted or unsubstituted aralkyl group, a substituted or unsubstituted aryl group, or a substituted or unsubstituted heterocyclic group,  $R_{25}$  themselves or  $R_{26}$  themselves, which are bonded to different fluorene groups, may be identical or different from each other, and  $R_{25}$  and  $R_{26}$  that are bonded to the same fluorene group may be identical or different from each other;  $R_{27}$  and  $R_{28}$  represent a hydrogen atom, a substituted or unsubstituted alkyl group, a substituted or unsubstituted aralkyl group, a substituted or unsubstituted aryl group, a substituted or unsubstituted heterocyclic group, a cyano group, or a halogen atom, and  $R_{27}$  themselves or  $R_{28}$  themselves, which are bonded to different fluorene groups, may be identical or different from each other, and  $R_{27}$  and  $R_{28}$  that are bonded to the same fluorene group may be identical or different from each other;  $Ar_9$  and  $Ar_{10}$  represent a substituted or unsubstituted divalent aromatic group or a substituted or unsubstituted divalent heterocyclic group, which may be identical or different from each other;  $Ar_{11}$ ,  $Ar_{12}$ ,  $Ar_{13}$ , and  $Ar_{14}$  represent a substituted or unsubstituted aromatic group, a substituted or unsubstituted heterocyclic group, a substituted or unsubstituted condensed polycyclic aromatic group, or a substituted or unsubstituted condensed polycyclic heterocyclic group, which may be identical or different from each other, and  $Ar_{11}$  and  $Ar_{12}$  as well as  $Ar_{13}$  and  $Ar_{14}$  may be bonded with each other to form rings, respectively; and m represents an integral number of 1 to 10.)